

List of Claims

1. (currently amended) A rotational coupling comprising:
a driven member including an inner surface that defines an opening and includes at least one contact surface;
a rotating shaft received in the opening of, and being in contact with, the driven member;
a coupling being operable to couple the driven member to the rotating shaft, and including at least one drive surface connected to, but separated a radial distance from, the rotating shaft;
the at least one drive surface and the at least one contact surface being in contact over a planar contact area; and
wherein the coupling includes a pin at least partially received in a pin bore defined by the rotating shaft.
2. (cancelled)
3. (original) The rotational coupling of claim 1 wherein the portion of the driven member including the contact surface being comprised of a relatively weak material; and
the portion of the coupling including the drive surface being comprised of a relatively strong material.
4. (currently amended) The rotational coupling of claim ~~2~~1 wherein the coupling includes at least one shoe trapped between the at least one contact surface of the driven member and the pin; and
the at least one shoe includes the at least one drive surface.
5. (previously presented) The rotational coupling of claim 4 wherein the at least one shoe being rectangular and including a centerline, and defining a shoe bore positioned along the centerline; and
the pin being cylindrical and at least partially received in the shoe bore.
6. (original) The rotational coupling of claim 1 wherein the inner surface of the opening defined by the driven member and an outer surface of the rotating shaft including concentric alignment surfaces in contact with one another.
7. (currently amended) The rotational coupling of claim ~~2~~1 wherein the pin includes a cylindrical portion at least partially received in the pin bore; and

the pin bore being perpendicular to an axis of the rotating shaft.

8. (currently amended) The rotational coupling of claim 1 wherein the at least one drive surface includes a first drive surface and a second drive surface located on opposite sides of the rotating shaft, and the at least one contact surface includes a first contact surface and a second contact surface; and

the first drive surface and the second drive surface and the first contact surface and the second contact surface contacting over a first planar contact area and a second planar contact area, respectively, ~~which~~ and the first and second planar contact areas are parallel to one another.

9. (previously presented) The rotational coupling of claim 8 wherein the first drive surface being included on a first shoe that is trapped between the first contact surface and a pin; and

the second drive surface being included on a second shoe that is trapped between the second contact surface and the pin.

10. (previously presented) The rotational coupling of claim 9 wherein the first shoe and the second shoe being rectangular, comprised of a relatively strong material, radially separated from an outer diameter of the rotating shaft by a predetermined distance, and each defining a shoe bore along a centerline;

the pin being cylindrical and at least partially received in the shoe bore;

the driven member being comprised of a relatively weak material;

a pin bore defined by the rotating shaft being perpendicular to an axis of the rotating shaft; and

the inner surface of the opening defined by the driven member and an outer surface of the rotating shaft including concentric alignment surfaces in contact with one another.

11. (currently amended) A pump comprising:

a pump housing;

a rotational coupling positioned within the pump housing; and

the rotational coupling including a rotor with an inner surface that defines an opening and includes at least one contact surface; a rotating shaft received in the opening of, and being in contact with, the rotor; and a coupling being operable to couple the rotor to the rotating shaft, and including at least one drive surface radially separated from, but connected to, the rotating shaft; and

the at least one drive surface and the at least one contact surface being in contact over a planar contact area; and

wherein the coupling includes a pin at least partially received in a pin bore defined by the rotating shaft.

12. (cancelled)

13. (currently amended) The pump of claim ~~12~~11 wherein the portion of the rotor including the at least one contact surface being comprised of a powered metal, and the portion of the coupling including the at least one drive surface being comprised of steel.

14. (original) The pump of claim 13 wherein the at least one drive surface includes a first drive surface and a second drive surface located on opposite sides of the rotating shaft, and the at least one contact surface includes a first contact surface and a second contact surface; and
the first drive surface and the second drive surface and the first contact surface and the second contact surface contacting over a first planar contact area and a second planar contact area, respectively.

15. (original) The pump of claim 14 wherein the first drive surface being included on a first shoe that is trapped between the first contact surface and the pin;
the second drive surface being included on a second shoe that is trapped between the second contact surface and the pin; and
each shoe being radially separated from an outer diameter of the rotating shaft by a predetermined distance.

16. (previously presented) The pump of claim 15 wherein the pump housing includes a centerline;
the rotating shaft and a circular cavity of the pump housing are eccentric with respect to one another; and
an electric motor included within the pump housing and attached to the rotating shaft.

17. (original) The pump of claim 16 wherein the inner surface of the rotor includes an alignment portion between a first drive portion and a second drive portion;
the alignment portion includes a concentric alignment surface, the first drive portion includes the first contact surface, and the second drive portion includes the second contact surface;
and
the concentric alignment surface and an outer surface of the rotating shaft include a concentric alignment contact area.

18. (cancelled)

19. (cancelled)

20. (currently amended) The rotational coupling of claim 2 wherein the planar contact area is ~~perpendicular~~parallel to an axis of the pin.

21. (currently amended) The rotational coupling of claim 20 ~~including~~ wherein the planar contact area is one of two planar contact areas that are parallel to each other.

22. (currently amended) The pump of claim 12 ~~including~~wherein the planar contact area is one of two planar contact areas that are adjacent opposite ends of the pin ~~that~~and are ~~perpendicular~~parallel to the pin ~~but parallel with~~and each other.